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PTO & TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

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of

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Complete if Known

Application Number	10/674,154
Filing Date	September 29, 2003
First Named Inventor	Felix A. Perriello
Art Unit	1724
Examiner Name	Chester T. Barry
Attorney Docket Number	GLOB 63966

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
CTB		US- 2,474,833	07-05-1949	Eweson	
		US- 2,947,619	08-02-1960	Gorby	
		US- 2,969,279	01-24-1961	Pierson	
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		US- 3,184,891	05-25-1965	Frantzen	
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		US- 3,242,071	03-22-1966	Walker	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
CTB		EP 0098138	01-11-1984	Exxon Research&Engin'ring		
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		JP 07050955	02-1995	Nagaura		
		WO 9719036	05-1997	Helsinki Univ.		
CTB		JP 10306003	11-1998	Yazawa et al.		

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CHESTER T. BARRY

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Sheet

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CTB		DE 19857870	06-2000	Res & Dev Renewable		
CTB		WO 03/037066	05-08-2003	Perriello et al.		
CTB		WO 03/053143	07-2003	Perriello		

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Examiner Signature	CHESTER T. BARRY PRIMARY EXAMINER	Date Considered
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QTB	US- 5,302,179		04-12-1994	Wagner	
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FOREIGN PATENT DOCUMENTS

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Signature**

CHESTER T. BARRY

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Application Number	10/674,154
Filing Date	September 29, 2003
First Named Inventor	Felix A. Perriello
Art Unit	1724
Examiner Name	Chester T. Barry

Attorney Docket Number GLOB 63966

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		Number-Kind Code ² (<i>if known</i>)			
CTB	US- 5,678,632		10-21-1997	Moses et al.	
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	US- 5,733,067		03-31-1998	Hunt et al.	
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CTB		US- 6,194,197	02-27-2001	Hyman et al.	
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		Publication No. 2002/0195389		Perriello	12-26-2002	

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/674,154
				Filing Date	09/29/03
				First Named Inventor	Felix A. Perriello
				Group Art Unit	1724
				Examiner Name	CHESTER T. BARRY PRIMARY EXAMINER
				Attorney Docket Number	GLOB 63966
Sheet	2	of	3		

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
B		Publication No. 2003/0034301		Perriello	02-20-2003	
		Publication No. 2003/0044966		Perriello	03-06-2003	
		Publication No. 2003/0062306		Perriello	04-03-2003	
		Publication No. 2003/0066322		Perriello	04-10-2003	
		Publication No. 2003/0084609		Perriello et al.	05-08-2003	
		Publication No. 2003/0136735		Perriello	07-24-2003	
b		Publication No. 2003/0167686		Perriello	09-11-2003	

FOREIGN PATENT DOCUMENTS							
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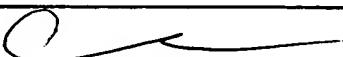
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CTB		WILSON ET AL., "Biodegradation of Trichloroethylene in Soil," <i>Applied and Environmental Microbiology</i> , January 1985; p. 242-243, Vol. 49, No. 1.	
		NELSON ET AL., "Aerobic Metabolism of Trichloroethylene by a Bacterial Isolate," <i>Applied and Environmental Microbiology</i> , August 1986, p. 383-384, Vol. 52.	
		LITTLE ET AL., "Trichloroethylene Biodegradation by a Methane-Oxidizing Bacterium," <i>Applied and Environmental Microbiology</i> , April 1988, p. 951-956, Vol. 54.	
		ARCIERO ET AL. "Degradation of Trichloroethylene by the Ammonia-Oxidizing Bacterium <i>Nitrosomonas europaea</i> ," <i>Biochemical and Biophysical Research Communications</i> , March 15, 1989; p. 640-643, Vol. 159, No. 2.	
		OLDENHUIS ET AL., "Degradation of Chlorinated Aliphatic Hydrocarbons by <i>Methylosinus trichosporum</i> OB3b Expressing Soluble Methane Monooxygenase," <i>Applied and Environmental Microbiology</i> , November 1989; p. 2819-2826, Vol. 55, No. 11.	
		TSIEN ET AL., "Biodegradation of Trichloroethylene by <i>Methylosinus trichosporum</i> OB3b," <i>Applied and Environmental Microbiology</i> , December 1989; p. 3155-3161, Vol. 55, No. 12.	
		VANNELLI ET AL., "Degradation of Halogenated Aliphatic Compounds by the Ammonia-Oxidizing Bacterium <i>Nitrosomonas europaea</i> ," <i>Applied and Environmental Microbiology</i> , April 1990; p. 1169-1171, Vol. 56, No. 4.	
CTB		FOLSON ET AL. "Phenol and Trichloroethylene Degradation by <i>Pseudomonas cepacia</i> G4: Kinetics and Interactions Between Substrates," <i>Applied and Environmental Microbiology</i> , May 1990; p. 1279-1285, Vol. 56, No. 5.	

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		Date Considered

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				Examiner Name	Chester T. Barry
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<i>CJB</i>		BROHOLM ET AL., "Toxicity of 1,1,1-Trichloroethane and Trichloroethylene on a Mixed Culture of Methane-Oxidizing Bacteria", <i>Applied and Environmental Microbiology</i> , August 1990, p. 2488-2493, Vol. 56, No. 8.	
/		HENRY ET AL., "Influence of Endogenous and Exogenous Electron Donors and Trichloroethylene Oxidation Toxicity on Trichloroethylene Oxidation by Methanotrophic Cultures from a Groundwater Aquifer," <i>Applied and Environmental Microbiology</i> , January 1991; p. 236-244, Vol. 57, No. 1.	
/		OLDENHUIS ET AL., "Kinetics of Chlorinated Hydrocarbon Degradation by <i>Methylosinus trichosporium</i> OB3b and Toxicity of Trichloroethylene," <i>Applied and Environmental Microbiology</i> , January 1991; p. 7-14, Vol. 57, No. 1.	
/		ALVAREZ-COHEN ET AL., "Product Toxicity and Cometabolic Competitive Inhibition Modeling of Chloroform and Trichloroethylene Transformation by Methanotrophic Resting Cells," <i>Applied Environmental Microbiology</i> , April 1991; p. 1031-1037, Vol. 57, No. 4.	
/		BÜYÜKSÖNMEZ ET AL., "Optimization of Simultaneous Chemical and Biological Mineralization of Perchoethylene," <i>Applied and Environmental Microbiology</i> , June 1999; p. 2784-2788, Vol. 65, No. 6.	
/		MAYMÓ-GATELL ET AL., "Reductive Dechlorination of Chlorinated Ethenes and 1, 2-Dichloroethane by 'Dehalococcoides ethenogenes' 195," <i>Applied and Environmental Microbiology</i> , July 1999; p. 3108-3113, Vol. 65, No. 7.	
<i>CB</i>		HAMAMURA ET AL., "Diversity in Butane Monooxygenases Among Butane-Grown Bacteria," <i>Applied and Environmental Microbiology</i> , October 1999; p. 4586-4593, Vol. 65, No. 10.	

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				Examiner Name	Chester T. Barry
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CB		LÖFFLER ET AL., "16S rRNA Gene-Based Detection of Tetrachloroethene-Dechlorinating <i>Desulfuromonas</i> and <i>Dehalococcoides</i> Species," <i>Applied and Environmental Microbiology</i> , April 2000; p. 1369-1374, Vol. 66, No. 4.	
		FOGEL ET AL., Biodegradation of Chlorinated Ethenes by Methane-Utilizing Mixed Culture, <i>Applied and Environmental Microbiology</i> , April 1986, pp 720-724, Vol. 51, No. 4.	
		WACKETT ET AL., Survey of Microbial Oxygenases: Trichloroethylene Degradation by Propane-Oxidizing Bacteria, <i>Applied and Environmental Microbiology</i> , November 1989, pp 2960-2964, Vol. 55, No. 11.	
		FOX, Status and Trends in Bioremediation Treatment Technology, <i>Remediation</i> , Summer 1991, pp 293-303.	
		ALVAREZ-COHEN ET AL., Characterization of a Methane-Utilizing Bacterium from a Bacterial Consortium That Rapidly Degrades Trichloroethylene and Chloroform, <i>Applied and Environmental Microbiology</i> , June 1992, pp 1886-1893, Vol. 58, No. 6.	
		CHANG ET AL., Transformation Capacities of Chlorinated by Mixed Cultures Enriched on Methane, Propane, Toluene, or Phenol, <i>Biotechnology and Bioengineering</i> , November 9, 1994, pp 440-449, Vol. 45.	
CB		KIM ET AL., Aerobic Cometabolism of Chloroform and 1,1,1-Trichloroethane by Butane-Grown Microorganisms, <i>Bioremediation Journal</i> , 1997, pp 135-148, Vol. 1, No. 2.	

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<i>CB</i>		HAMAMURA ET AL., Chloroform Cometabolism by Butane-Grown CF8, <i>Pseudomonas butanovora</i> , and <i>Mycobacterium vaccae</i> JOBS and Methane-Grown <i>Methylosinus trichosporium</i> OB3b, <i>Applied and Environmental Microbiology</i> , September 1997, pp 3607-3613, Vol. 63, No. 9.	
1		STEFFAN ET AL., Biodegradation of the Gasoline Oxygenates Methyl tert-Butyl Ether, Ethyl tert-Butyl Ether, and tert-Amyl Methyl Ether by Propane-Oxidizing Bacteria, <i>Applied and Environmental Microbiology</i> , November 1997, pp 4216-4222, Vol. 63, No. 11.	
		DE BRUIN ET AL., "Complete Biological Reductive Transformation of Tetrachloroethene to Ethane", <i>Applied and Environmental Microbiology</i> , June 1992, p. 1996-2000, Vol. 58, No. 6. [ABSTRACT]	
		MOHN ET AL., "Reductive Dehalogenation of Chlorophenols by Desulfomonile tiedjei DCB-1", <i>Applied and Environmental Microbiology</i> , April 1992, p. 1367-1370, Vol. 58, No. 4. [ABSTRACT]	
		SO ET AL., "Initial Reactions in Anaerobic Alkane Degradation by a Sulfate Reducer, Strain AK-01", <i>Applied and Environmental Microbiology</i> , December 1999, p. 5532-5540, Vol. 65, No. 12. [ABSTRACT]	
		HAGGBLOM ET AL., "Influence of Alternative Electron Acceptors on the Anaerobic Biodegradability of Chlorinated Phenols and Benzoic Acids," <i>Applied and Environmental Microbiology</i> , April 1993; p. 1162-1167, Vol. 59, No. 4. [ABSTRACT]	
<i>B</i>		RAMANAND ET AL., "Reductive Dehalogenation of Chlorinated Benzenes and Toluenes Under Methanogenic Conditions," <i>Applied and Environmental Microbiology</i> , October 1993; p. 3266-3272, Vol. 59, No. 10. [ABSTRACT]	

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PRIMARY EXAMINER

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6		COATES ET AL., "Anaerobic Degradation of Polycyclic Aromatic Hydrocarbons and Alkanes in Petroleum-Contaminated Marine Harbor Sediments", <i>Applied and Environmental Microbiology</i> , September 1997, p. 3589-3593, Vol. 63, No. 9. [ABSTRACT]	
		SO ET AL., "Isolation and Characterization of a Sulfate-Reducing Bacterium that Anaerobically Degrades Alkanes", <i>Applied and Environmental Microbiology</i> , July 1999, p. 2969-2976, Vol. 65, No. 7. [ABSTRACT]	
		LAUE ET AL., "Taurine Reduction in Anaerobic Respiration of <i>Bilophila wadsworthia RZATAU</i> ", <i>Applied and Environmental Microbiology</i> , May 1997, p. 2016-2021, Vol. 63, No. 5. [ABSTRACT]	
		WISCHNAK ET AL., "Pseudomonas sp. Strain 273, an Aerobic α,ω -Dichloroalkane Degrading Bacterium", <i>Applied and Environmental Microbiology</i> , September 1998, p. 3507-3511, Vol. 64, No. 9. [ABSTRACT]	
		YE ET AL., "Anaerobic Dechlorination of Polychlorobiphenyls (Aroclor 1242) by Pasteurized and Ethanol-Treated Microorganisms from Sediments", <i>Applied and Environmental Microbiology</i> , April 1992, p. 1110-1114, Vol. 58, No. 4. [ABSTRACT]	
		WIEGEL ET AL., "Anaerobic Dehalogenation of Hydroxylated Polychlorinated Biphenyls by <i>Desulfitobacterium dehalogenans</i> ", <i>Applied and Environmental Microbiology</i> , May 1999, p. 2217-2221, Vol. 65, No. 5. [ABSTRACT]	
6		WU ET AL., "Establishment of a Polychlorinated Biphenyl-Dechlorinating Microbial Consortium, Specific for Doubly Flanked Chlorines, in a Defined, Sediment-Free Medium", <i>Applied and Environmental Microbiology</i> , January 2000, p. 49-53, Vol. 66, No. 1. [ABSTRACT]	

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G		MIGUEZ ET AL., "Monitoring Methanotrophic Bacteria in Hybrid Anaerobic-Aerobic Reactors with PCR and a Catabolic Gene Probe", <i>Applied and Environmental Microbiology</i> , February 1999, p. 381-388, Vol. 65, No. 2. [ABSTRACT]				
		BEDARD ET AL., "Brominated Biphenyls Prime Extensive Microbial Reductive Dehalogenation of Aroclor 1260 in Housatonic River Sediment", <i>Applied and Environmental Microbiology</i> , May 1998, p. 1786-1795, Vol. 64, No. 5. [ABSTRACT]				
		WU ET AL., "Microbial Reductive Dechlorination of Aroclor 1260 in Anaerobic Slurries of Estuarine Sediments", <i>Applied and Environmental Microbiology</i> , March 1998, p. 1052-1058, Vol. 64, No. 3. [ABSTRACT]				
		SANFORD ET AL., "Characterization of Desulfitobacterium chlororespirans sp. nov., Which Grows by Coupling the Oxidation of Lactate to the Reductive Dechlorination of 3-chloro-4-hydroxybenzoate", <i>Applied and Environmental Microbiology</i> , October 1996, p. 3800-3808, Vol. 62, No. 10. [ABSTRACT]				
		NICHOLSON ET AL., "Reductive Dechlorination of Chlorophenols by a Pentachlorophenol-Acclimated Methanogenic Consortium", <i>Applied and Environmental Microbiology</i> , July 1992, p. 2280-2286, Vol. 58, No. 7. [ABSTRACT]				
		VON WINTZINGERODE ET AL., "Phylogenetic Analysis of an Anaerobic, Trichlorobenzene-Transforming Microbial Consortium", <i>Applied and Environmental Microbiology</i> , January 1999, p. 283-286, Vol. 65, No. 1. [ABSTRACT]				
G		BEDARD ET AL., "Complete Reductive Dehalogenation of Brominated Biphenyls by Anaerobic Microorganisms in Sediment", <i>Applied and Environmental Microbiology</i> , March 1998, p. 940-947, Vol. 64, No. 3. [ABSTRACT]				

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C		VAN EEKERT ET AL., "Degradation and Fate of Carbon Tetrachloride in Unadapted Methanogenic Granular Sludge", <i>Applied and Environmental Microbiology</i> , July 1998, p. 2350-2356, Vol. 64, No. 7. [ABSTRACT]	
		BRADLEY ET AL., "Anaerobic Oxidation of [1,2- ¹⁴ C]Dichloroethene Under Mn(IV)-Reducing Conditions", <i>Applied and Environmental Microbiology</i> , April 1998, p. 1560-1562, Vol. 64, No. 4. [ABSTRACT]	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/674,154
Sheet	8		10	Filing Date	September 29, 2003
				First Named Inventor	Felix A. Perriello
				Group Art Unit	1724
				Examiner Name	Chester T. Barry
				Attorney Docket Number	GLOB 63966

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		DOJKA ET AL., "Microbial Diversity in a Hydrocarbon- and Chlorinated-Solvent-Contaminated Aquifer Undergoing Intrinsic Bioremediation", <i>Applied and Environmental Microbiology</i> , October 1998, p. 3869-3877, Vol. 64, No. 10. [ABSTRACT]	
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		www.biobutane.com/may2000.htm (downloaded on 11/18/02) dated 05/01/2000.	
		www.biobutane.com/march2000.htm (downloaded on 11/18/02) dated 03/01/2000.	
		Global BioSciences, Inc. Powerpoint® brand audiovisual presentation (downloaded from web on 11/18/02) (undated).	
		Air & Waste Management Association Show New Products information sheet (posted June 25, 1999) at www.pollutionengineering.com/events/conferences/awma99/awmanp6.htm (downloaded 11/18/02).	
		WILSON ET AL., "Biological Treatment of Trichloroethylene and 1,1,1-Trichloroethane from Contaminated Air Streams", <i>Proceedings of Petroleum Hydrocarbons and Organic Chemicals in Ground Water: Prevention, Detection and Restoration</i> (The Westin Galleria, Houston, November 9-11, 1988), v2, pages 823-831, published 1989.	
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